## AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

## **Listing of the Claims**

- 1. (Canceled)
- 2. (Previously Presented) The method of claim 19, wherein the piezoelectric film is composed of aluminum nitride or zinc oxide.
- 3. (Previously Presented) The method of claim 19, wherein the patterned electrode is composed of aluminum or titanium.
- 4. (Previously Presented) The method of claim 19, wherein the substrate is composed of silicon or gallium arsenide.
  - 5. (Canceled)
- 6. (Previously Presented) The method of claim 19, wherein the step of planarizing includes employing a chemical mechanical polishing process.
- 7. (Previously Presented) The method of claim 19, wherein the step of planarizing includes employing a polymer planarization process.
- 8. (Previously Presented) The method of claim 19, wherein the step of planarizing includes employing a reflow and lift-off process.

- 9. (Previously Presented) The method of claim 19, wherein the non-conducting layer has a low dielectric constant.
- 10. (Previously Presented) The method of claim 19, wherein the non-conducting layer is  $SiO_2$ .

## 11-18 (Canceled)

19. (Currently Amended) A method of forming a thin film acoustic device, the device including a patterned electrode with an edge and a height, the patterned electrode formed on a substrate-and a piezoelectric film to be formed on the patterned electrode, the method comprising the steps of:

depositing a non-conducting layer on the patterned electrode and substrate; and

planarizing the non-conducting layer so that the non-conducting layer has a height that is equal to a height of the patterned electrode; and

forming a piezoelectric film on the patterned electrode and planarized non-conducting layer.

## 20. (Canceled)

- 21. (Previously Presented) The method of claim 19, wherein the piezoelectric film serves as a support membrane for the device.
- 22. (Previously Presented) A method of forming a thin film acoustic device, comprising:

forming an electrode on a substrate; patterning the electrode;

depositing a non-conducting layer on the patterned electrode and substrate;

planarizing the non-conducting layer so that the non-conducting layer and patterned electrode form a continuous layer having a level surface; and forming a piezoelectric layer on the level surface of the continuous layer.

- 23. (Previously Presented) The method of claim 22, wherein the level surface provided by the planarized non-conducting layer and patterned electrode improves the mechanical integrity of the piezoelectric layer by eliminating the edge of the patterned electrode.
- 24. (Currently Amended) A method of improving the mechanical integrity of a piezoelectric film layer during fabrication of a thin film acoustic device, the device including a patterned electrode with an edge an a height, the patterned electrode formed on a substrate and the piezoelectric film layer to be formed on the patterned electrode, the method comprising the steps of:

depositing a non-conducting layer on the patterned electrode and substrate; and

planarizing the non-conducting layer so that the non-conducting layer and patterned electrode form a continuous layer having a level surface, improving the mechanical integrity of the piezoelectric layer by eliminating the edge of the patterned electrode; and

forming a piezoelectrice layer on the level surface of the patterned electrode.